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Dräger
MEDICAL

Field Service Procedure

Part Number: SP00278
Rev: -
Date: 9 June 2003
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Narkomed 6000 Series
Hard Drive Replacement Procedure

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Narkomed 6000 Series
Hard Drive Replacement Procedure

REPLACEMENT PROCEDURE

Prerequisites: **Machine must be at user application software version 2.06 or greater. Refer to service procedure SP00236 for Sw 3.01 (SW CD-ROM P/N 4115420-003); SP00272 for Sw 3.02 (SW CD-ROM P/N 4115420-005); and SP00259 for Sw 4.01 (SW CD-ROM P/N 4115420-004).**

CAUTION: All replacement hard drives contain software version 2.06. If the software version is greater than 2.06, a software version identifying label will located near the Model/Serial Number plate. The appropriate software version must be installed at the completion of this procedure. Refer to service procedure SP00236 for Sw 3.01; SP00272 for Sw 3.02; and SP00259 for Sw 4.01.

CAUTION: Do not store the Hard Drive kit at extreme temperatures or at excessive humidity levels. Do not open the Hard Drive kit's packaging until it has fully acclimated to the ambient temperature. Acclimation will required several hours if the Hard Drive kit is stored at very hot or cold temperatures.

1. If the WPU is nonfunctional skip to step 6.
2. Select the Service Parts key from the NM6000 Configuration Service menu. Record the replacement parts entries onto table 2, 3 or 4 for future reference. Refer to the Table 3: for Sw 2.06; Table 4: for Sw 3.01 & 3.02; or Table 5: for Sw 4.01.
3. Record the Event Logs to your laptop then forward them to DMI Technical Support for future reference. Refer to the appropriate procedure given in section 2.8 – 2.10 of the Narkomed 6000 Series Technical Service manual.
4. If the machine is configured with optional Templates and Sounds, use the Template Manager Utility to copy the files to your laptop for future use. This utility program and instructions for its use can be obtained via Lotus Notes software database or by contacting Draeger Medical, Inc.
5. If an external device is interfaced to the Narkomed 6000 Series communication port, note its port location and record the current serial port settings listed in the 'Ports' tab of the Service Monitors notebook.
6. If the machine is a NM6400, touch the 'Volume' tab and note the current 'Tidal Volume Low Alarm' setting for future reference.
7. Turn the System Power switch to STANDBY.
8. Remove AC power from the machine.
9. Wait at least 3.5 minutes, then after the green LED on the Vitalbus HUB has turned off pull all circuit breakers to their 'out' position.

WARNING: Before servicing, ensure that AC power is removed from the machine and all circuit breakers are disengaged (pulled out). Failure to observe this precaution may cause injury by electric shock.

REPLACEMENT PROCEDURE (continued)

CAUTION: Use ESD precautions when handling any of the electronics assemblies. These assemblies contain static sensitive components.

10. Close all cylinder valves and remove the cylinders from their yokes.
11. Remove the Vitalbus Hub mounting hardware (do not disassemble the hinge hardware). Remove the power cord strain relief retainer and swing open the assembly.
12. Remove the lower left back from the machine.
13. Locate the label on the cover of the WPU and record the WPU serial number for future reference. Identify the version of the Gold Drive. Table 1: shall be used to identify the proper replacement hard drive kit for use. Table 2: includes a list of parts contained in each kit.

Table 1: Gold Drive Version Legend

Gold Drive Version	Kit Part Number	Reference to Table 2
Gold Drive Version 6	4118196	A
Gold Drive Version 7	4118195	B
Gold Drive Version M3/R2 or MR/R2.1	4118194	C
Gold Drive Version M3/RN3 or M3/RN3.1	4118193	D

Table 2: Kit List Matrix

Kit Contents	Description	QTY	A	B	C	D
4117730-012	GD-6 2.5 HDD Sub-Assembly	1	X			
4118191	Bracket, HDD	1	X	X	X	X
HW67018	Washer, Lock	4	X	X	X	X
1340727	Screw, Pan Head	4	X	X	X	X
4118215	Cable, HDD	1	X	X	X	X
4106068	Tie Strap	2	X	X	X	X
4117730-013	GD-7 2.5 HDD Sub-Assembly	1		X		
4117730-014	GD-M3/R2.1 2.5 HDD Sub-Assembly	1			X	
HW67007	Washer, Lock	4			X	X
4118192	Bracket, HDD	1			X	X
HW19004	Screw, Pan Head	4			X	X
4117730-015	GD-M3/RN3.1 2.5 HDD Sub-Assembly	1				X

CAUTION: If a hard drive kit containing the incorrect Gold Drive Version is installed the motherboard and/or video card hardware drivers will be incompatible resulting in a malfunction.

14. Disconnect all cables from the power supply assembly and move them out of the way.
15. If the WPU is unpainted continue with next step. Or, if the WPU is painted white skip to step 34.
16. Disconnect all of the cables except the DC power cable, from the right side (facing the rear of the machine) of the processor assembly.
17. Using a screwdriver with a 10" shaft, loosen the four captive mounting screws securing the processor to the machine. Pull the processor assembly straight back then pivot it counterclockwise to allow its removal out of the machine.
18. Remove the WPU cover.
19. Locate the angled plate and disconnect its preload resister from the WPU power supply wire harness and mark this power supply connector as "Ω" for future reference. See FIGURE 1.
20. Locate the hard drive's power cable and disconnect it from the WPU Power supply wire harness and mark this power supply connector as "HD". See FIGURE 2.
21. Disconnect the hard drive's data cable from the motherboard Primary IDE at J10. See FIGURE 4.
22. While supporting the hard drive and bracket assembly, remove the four screws located along the right side of WPU housing and remove the entire assembly. Retain the bracket mounting hardware for future use. See FIGURE 2.
23. Remove the angled plate from the hard drive and bracket assembly and retain these components for future reference.

REPLACEMENT PROCEDURE (continued)

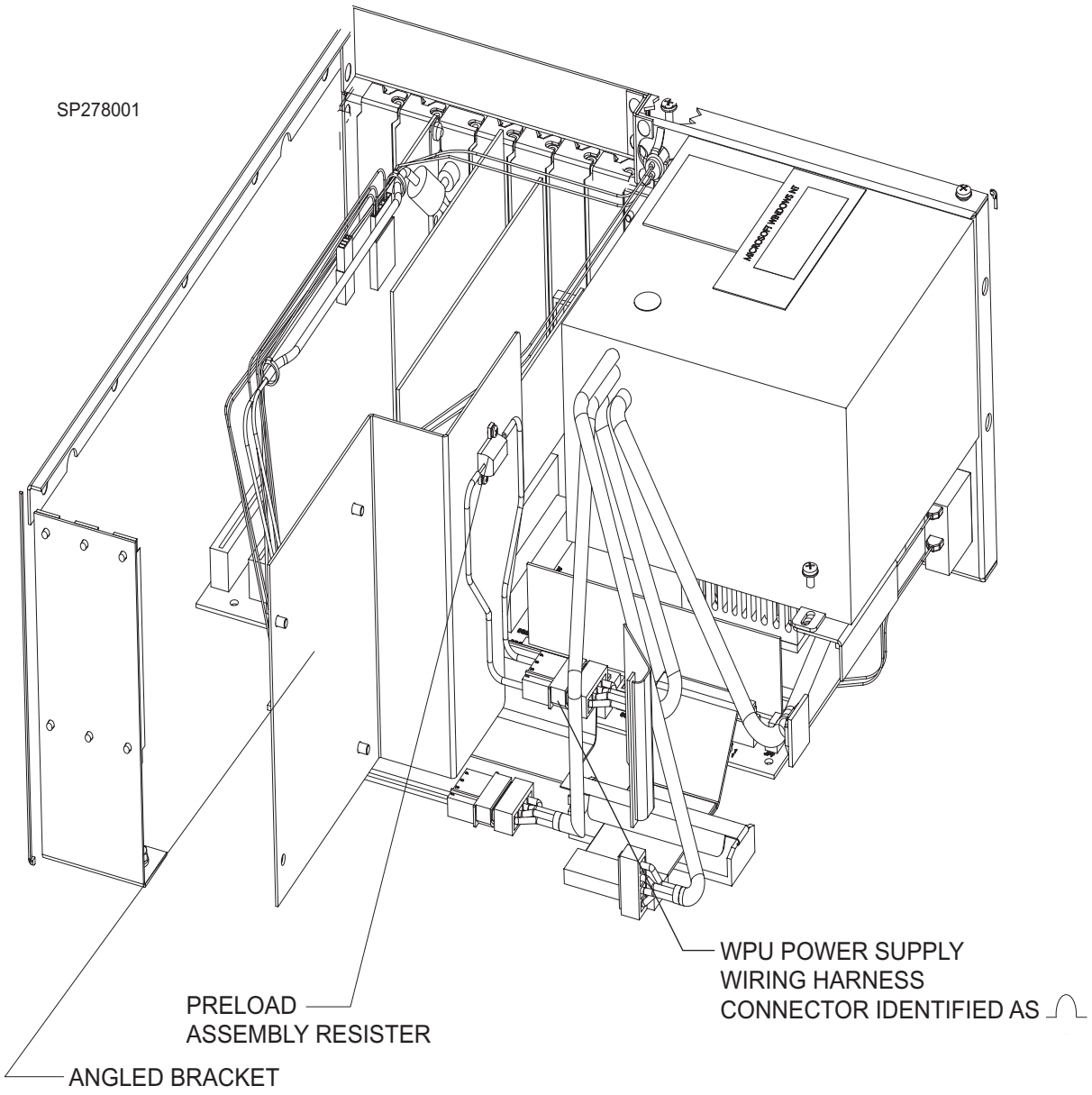

FIGURE 1. Wire Harness Connections

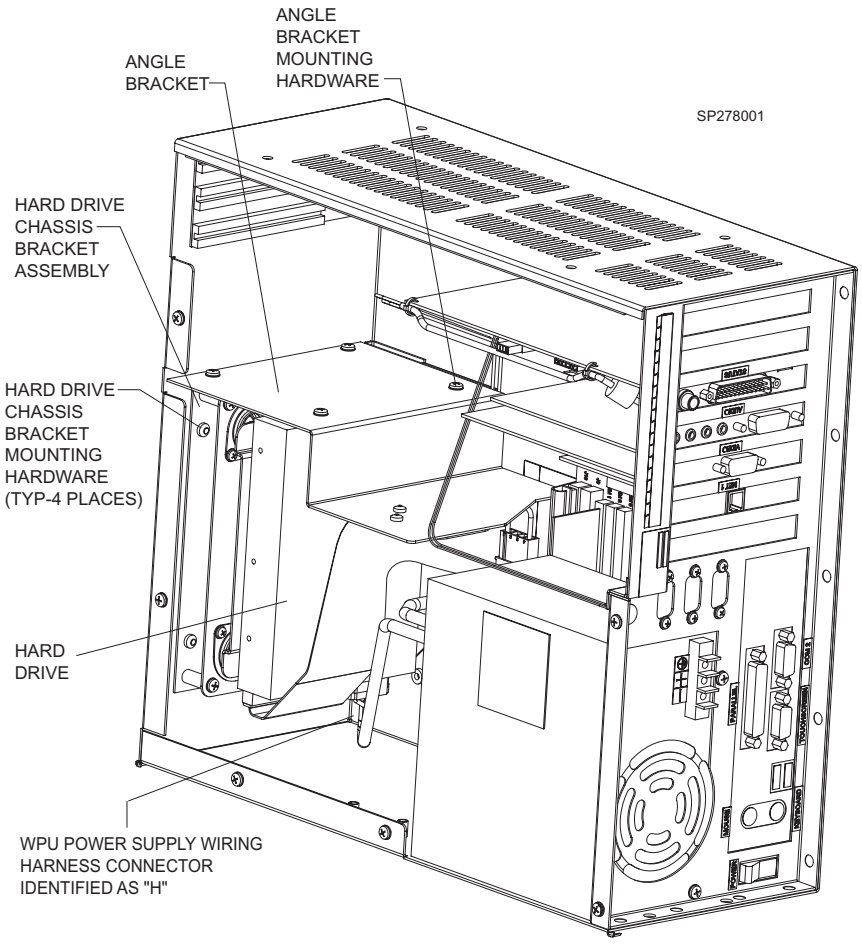
ANGLE BRACKET MOUNTING HARDWARE
ANGLE BRACKET
SP278001
HARD DRIVE CHASSIS BRACKET ASSEMBLY
HARD DRIVE CHASSIS BRACKET MOUNTING HARDWARE (TYP-4 PLACES)
HARD DRIVE
WPU POWER SUPPLY WIRING HARNESS CONNECTOR IDENTIFIED AS "H"

FIGURE 2. Typical WPU with Shock Mounted Hard Drive

CAUTION: Hard drive assemblies are extremely delicate. Use extreme care when handling these assemblies. Cover the entire hard drive work area with an ESD foam pad at least 1-inch thick. Do not place hard drive assembly on any hard surfaces or impact shock damage may occur.

24. Record the serial number of the replacement hard drive then carefully attach the angled plate to the hard drive corner bracket using the hardware previously removed. See FIGURE 3.
25. Carefully install the replacement hard drive and bracket assemblies using the hardware previously removed. Before tightening the screws, be certain that no wires or cables are caught between the bracket and the chassis.

REPLACEMENT PROCEDURE (continued)

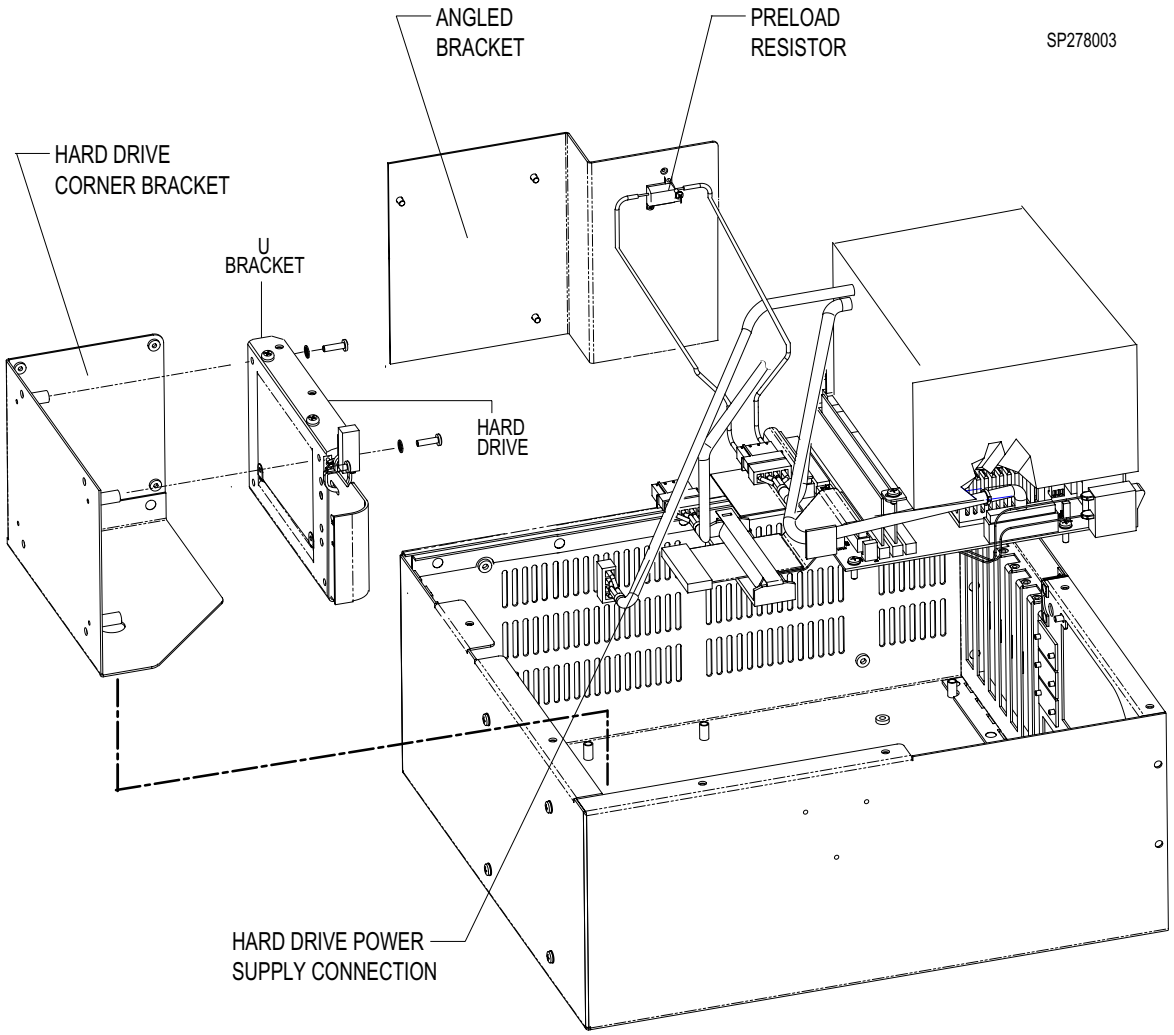

FIGURE 3. Fujitsu Hard Drive and Corner Bracket with Angle Plate

26. Attach the WPU power supply wire harness connector marked 'HD' to the hard drive.
27. Attach the WPU power supply wire harness connector marked 'Ω' to the preload resistor.
28. Attach the hard drive data cable to the Primary IDE port at J10 on the motherboard. See FIGURE 4.

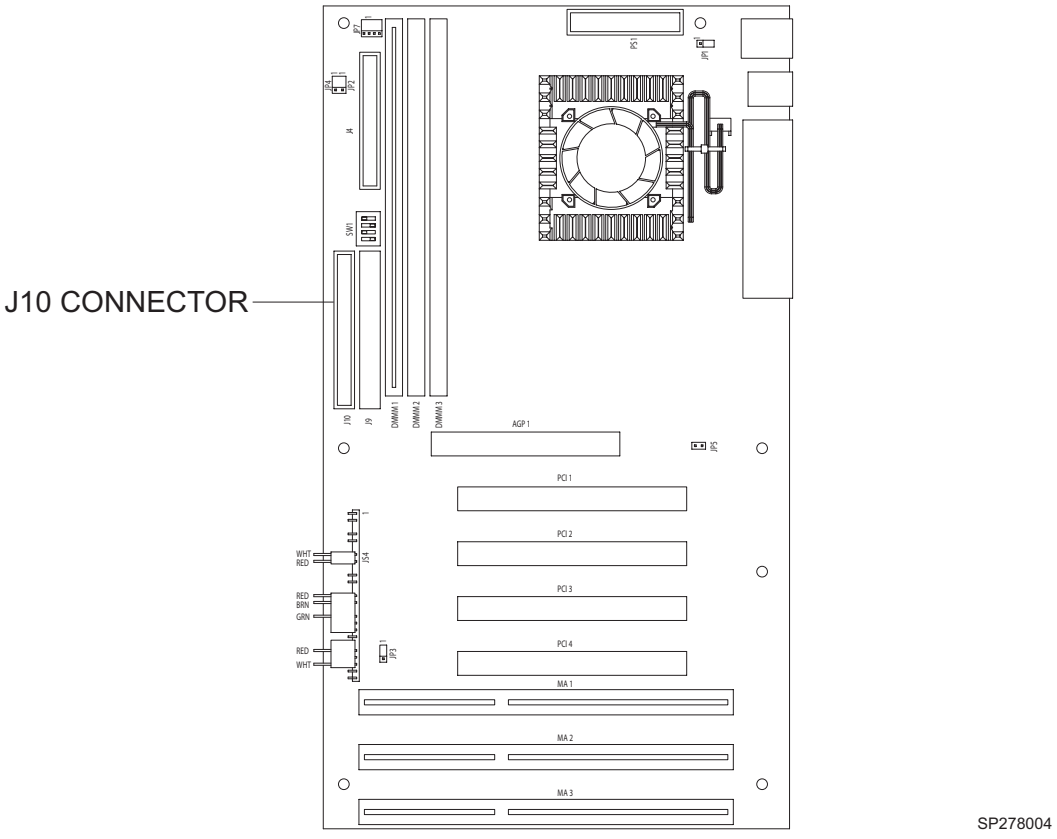

FIGURE 4. Motherboard Data Connection

29. Reinstall the WPU cover.
30. Slide the WPU back into place and secure it with the captive mounting screws.
31. Reconnect all of the WPU cables that were previously disconnected. Refer to FIGURE 5.

REPLACEMENT PROCEDURE (continued)

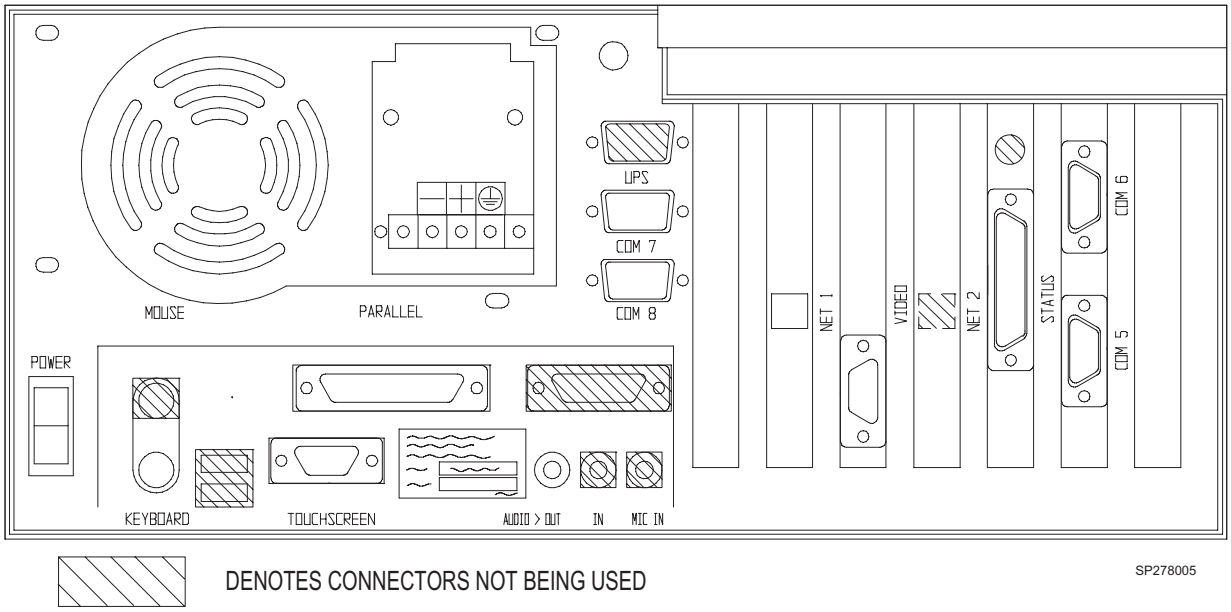

FIGURE 5. WPU Connector Locations

32. Secure the cables previously removed from the power supply assembly.
33. Skip to step 50.
34. Place a piece of cardboard or paper over the power supply connectors to prevent loose hardware from falling into the power supply.
35. Remove the WPU cover.
36. Locate the hard drive's data cable and disconnect it from the motherboard Primary IDE at J10. See FIGURE 4.
37. Locate the hard drive and 'U' bracket assembly and note its mounting orientation. See FIGURE 6.

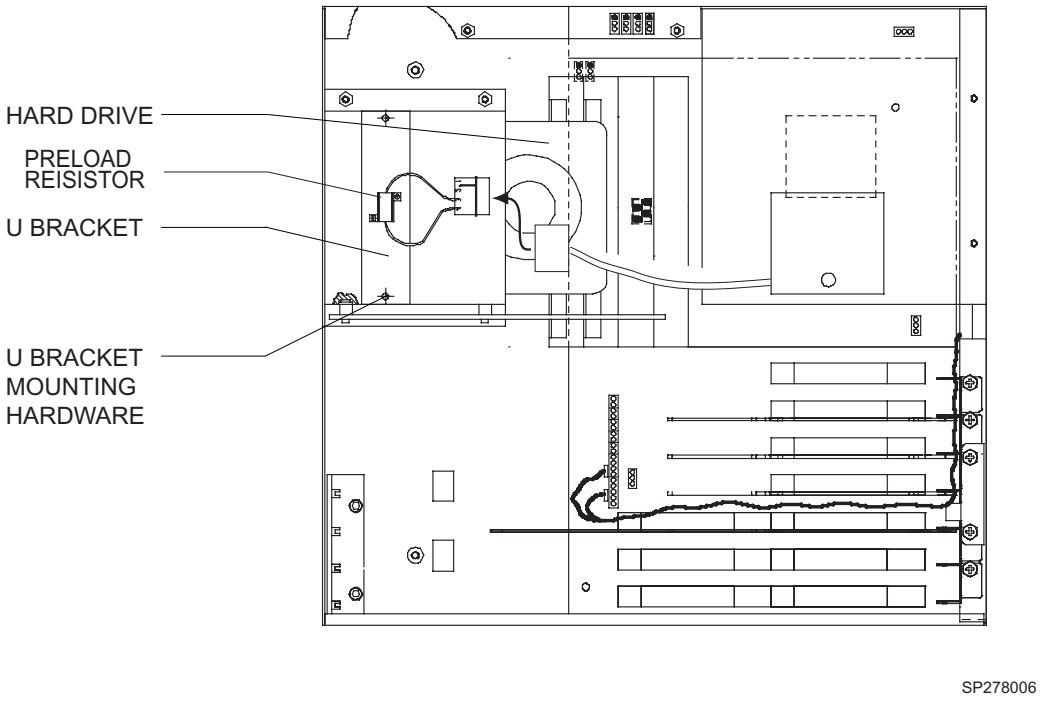

FIGURE 6. Original Hard Drive and 'U' Bracket Assembly w/Preload Resistor

38. If the hard drive 'U' bracket contains a preload resistor disconnect it from the WPU Power supply wire harness and mark this power supply connector as 'Ω'.
39. Locate the hard drive's power cable and disconnect it from the WPU Power supply wire harness and mark this power supply connector as 'HD'.
40. While supporting the hard drive and 'U' bracket assembly, remove the four mounting screws and remove the entire assembly from the WPU. Retain the mounting hardware for future use.

CAUTION: Hard drive assemblies are extremely delicate. Use extreme care when handling these assemblies. Cover the entire hard drive work area with an ESD foam pad at least 1-inch thick. Do not place hard drive assembly on any hard surfaces or impact shock damage may occur.

41. If kit Gold Drive Version M3/R2.1, P/N 4118194, was selected carefully remove and discard the corner bracket that was provided with this hard drive kit. Refer to FIGURE 7.

REPLACEMENT PROCEDURE (continued)

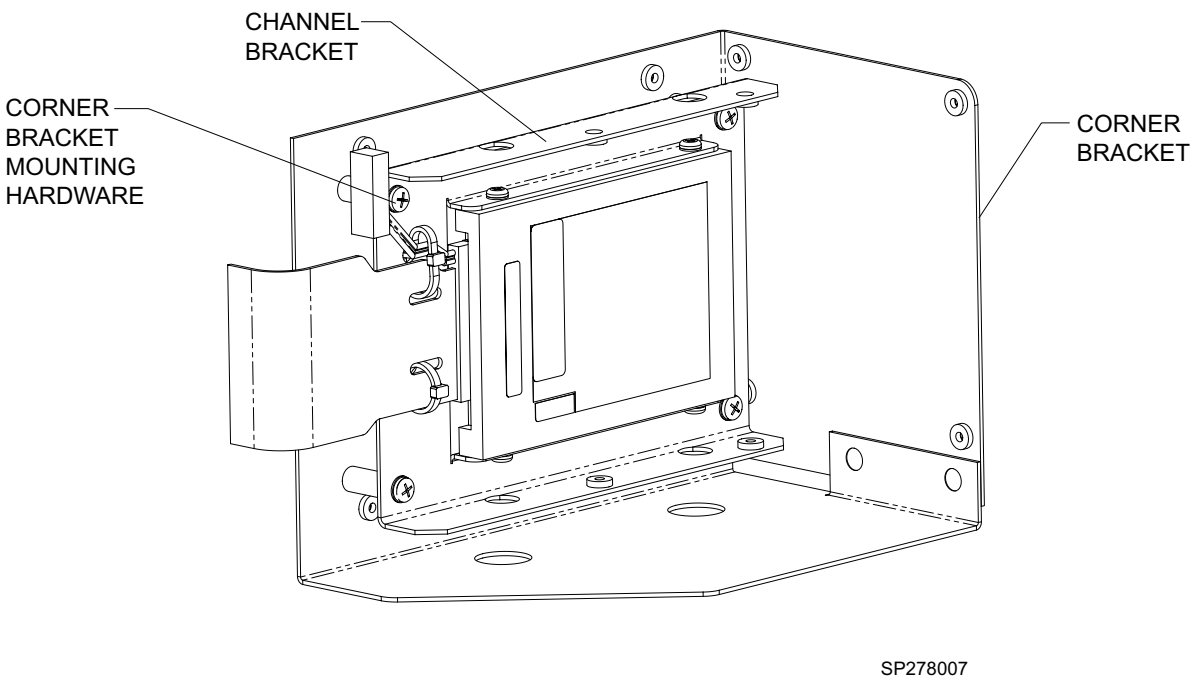

FIGURE 7. Corner Bracket Removal, If applicable

42. Record the serial number of the replacement hard drive then carefully orient it with the label facing up and its data and power cables facing away, then slide it into the open end of the 'U' bracket and align it with the lower set of clearance holes. Secure the hard drive to the 'U' bracket by reusing the hardware previously removed from the original hard drive. See FIGURE 8.

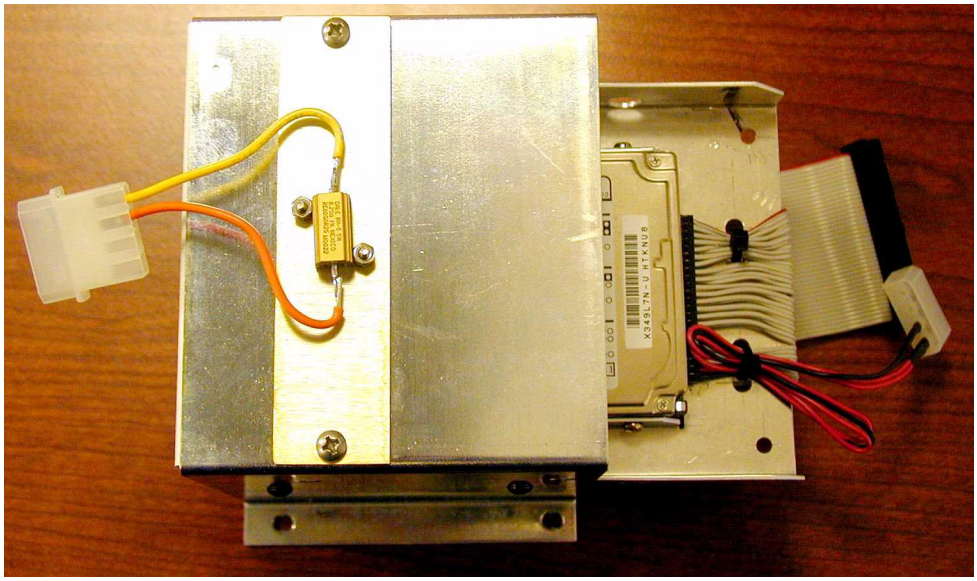

FIGURE 8. Hard Drive & 'U' Bracket Orientation

43. Orient the replacement hard drive and 'U' bracket assembly in the same position as the original then carefully mount it to the WPU chassis using the hardware previously removed. Before tightening the screws, be certain that no wires or cables are caught between the 'U' bracket and the chassis. Refer to FIGURE 6.
44. Attach the power supply wire harness connector marked 'HD' to the hard drive.
45. If the 'U' bracket contains a preload resistor attach it to the power supply wire harness connector marked with a 'Ω'.
46. Attach the hard drive data cable to the Primary IDE port at J10 on the motherboard. See FIGURE 4.
47. Reinstall the WPU cover.
48. Remove the paper from the top of the power supply connections and secure the cables previously removed from the power supply assembly.
49. If re-attaching the 2-pin wire harness to the Vitalbus Hub at J13, verify its proper orientation. From the header connector the wires must route to the right and the brown wire above the black wire as shown in FIGURE 9.

REPLACEMENT PROCEDURE (continued)

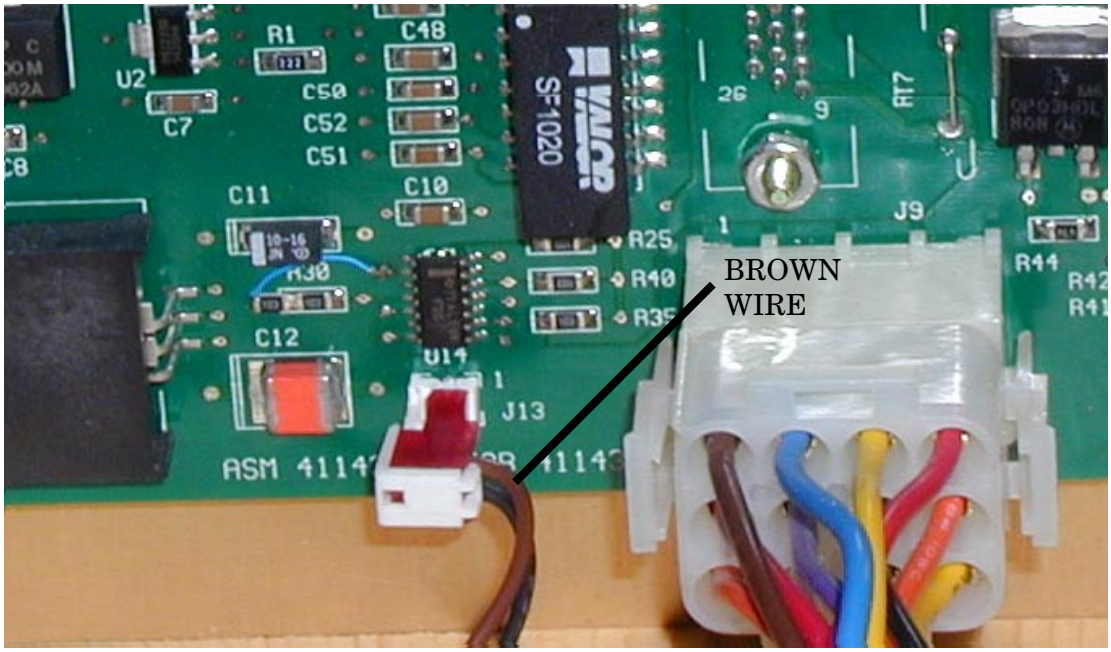

FIGURE 9. Vitalbus J13 Connector Orientation

50. Examine the WPU's Parallel Printer Port for the presence of a Software Options Keylok and, if applicable, note the options that are listed on the Keylok label for future reference.
51. Enable the circuit breakers and connect the power cord to a live AC receptacle. Turn the System Power switch to ON. Respond to the Divan prompts and wait for the NM6000 to complete its startup sequence. Verify the system is functional.

    NOTE: If the WPU does not power up, toggle the WPU Power switch.

    NOTE: If there are new pod images, the images will be loaded on the first start-up. This process is automatic and upon its completion, the system self-diagnostic tests will continue.
52. Reinstall the back panel on the machine.
53. Swing the Vitalbus Hub door closed. Reconnect any cables that were previously disconnected.
54. Reattach the power cord strain relief retainer and reinstall the previously removed hardware. Route the power cord's strain relief with a loop in a clockwise direction. The retaining clamp shall be located approximately 17 inches (5in. diameter) from the power supply and secured to the Vitalbus Hub door using the mounting hole directly above the power cord socket. See FIGURE 10.

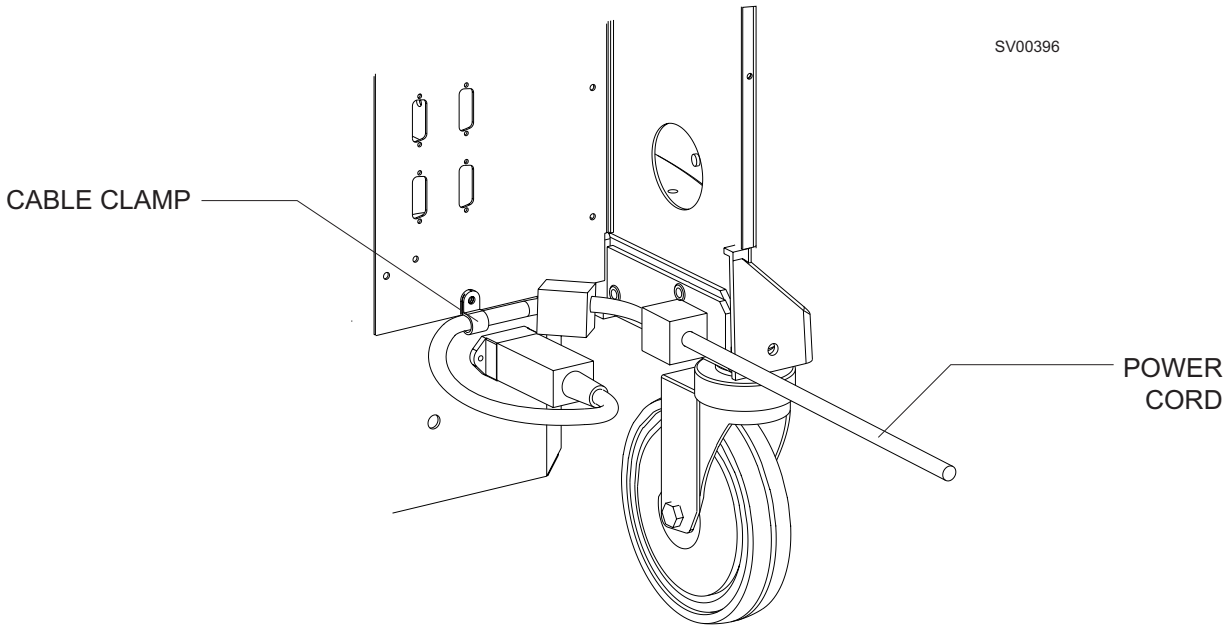

FIGURE 10. Power Cord Routing

55. Reinstall the cylinders in their yokes.
56. All replacement hard drive kits are loaded with user application 2.06 software. If the original software version is greater then 2.06 a software version identifying label will located near the Model/Serial Number plate. Refer to service procedure SP00236 for Sw 3.01 (SW CD-ROM P/N 4115420-003); SP00272 for Sw 3.02 (SW CD-ROM P/N 4115420-005); and SP00259 for Sw 4.01 (SW CD-ROM P/N 4115420-004).
57. Touch the 'Setup' key, to display the Setup Notebook then touch the 'Setup' tab and select the 'Set Date/ Time' key. Enter the local time and date, and then touch the 'Save' key to exit the screen.
58. Touch the 'About' tab to display the About page, then touch the following keys in this order:

    (2)--Volume, Pressure, Oxygen
    (3)--Gas Analysis
    (1)--NM6000
    (5)--Strip Chart Recorder

59. Touch OK at the 'Entering Service Mode: Do you want to continue?' dialog to enter the primary Service Mode.
60. Touch the 'NM6000' tab to enter the Primary Service Mode. Select the 'About' tab then touch the following keys in this order:

    (5)--Strip Chart Recorder
    (1)--NM6000
    (3)--Gas Analysis
    (2)--Volume, Pressure, Oxygen

REPLACEMENT PROCEDURE (continued)

61. Verify the About screen indicates access to 'Advanced Service Mode', then select the 'Service Config' key to enter the 'NM6000 CONFIGURATION' screen. Select the Service key and enter your Technical Service Representative ID; then touch 'OK'.
62. If an external device is connected to the Narkomed 6000 Series communication port select the 'Service Monitors' key from the task bar and then touch the 'Ports' tab. Reset the port configuration to its original settings and then touch the 'Apply' key.
63. Touch the 'Screen' tab then perform the touch screen calibration.

    NOTE: An advanced touch screen calibration procedure may be needed when calibration is not possible under the usual procedure. Refer to Section 5 in the Narkomed 6000 Series Technical Service manual.

64. If fitted with a CRT display, skip the next step.
65. Remove the screws securing the Auxiliary Lamp or the Strip Chart Recorder assembly to gain access to the ODC controller board. Touch the 'Screen' tab. Perform the Flat Panel Display Brightness, Contrast Phase and Video Position calibrations. Refer to Section 5 in the Narkomed 6000 Series Technical Service manual. Reinstall the Auxiliary Lamp or the Strip Chart Recorder assembly.
66. Touch the 'Service Config' key; then touch the 'Serial Number' key and using the on screen keyboard re-enter the machine serial number. Touch the 'Serial Number' key again to enter the value. Touch the 'PMC Due Date' key and enter the information identified by the PMC label on the rear of the machine.
67. If the service parts information is available for re-entry, touch the 'SERVICE PARTS' key and re-enter the pertinent parts replacement data then touch 'OK'.
68. If the WPU contains a Keylok activated software option or if the machine is a CSA version which requires an Audible O2 Whistle, select the Options Tab and select the options that must be re-enabled.
69. Touch the 'Update' tab in the 'NM6000 CONFIGURATION' to access the 'UPDATE' page. If any PBS versions are displayed in red, touch the corresponding area on the screen to initiate a PBS update. When a 'Pod Base' key is pressed, the notebook may disappear. If this occurs, touch the 'Service Config' key to refresh the "Service Config' notebook. Select additional POD for download, if required. After all downloads are completed, they will reset and reference the latest POD based software version. See FIGURE 11.

    NOTE: Communication will be lost during this update. This is normal and communication will be regained after cycling power.

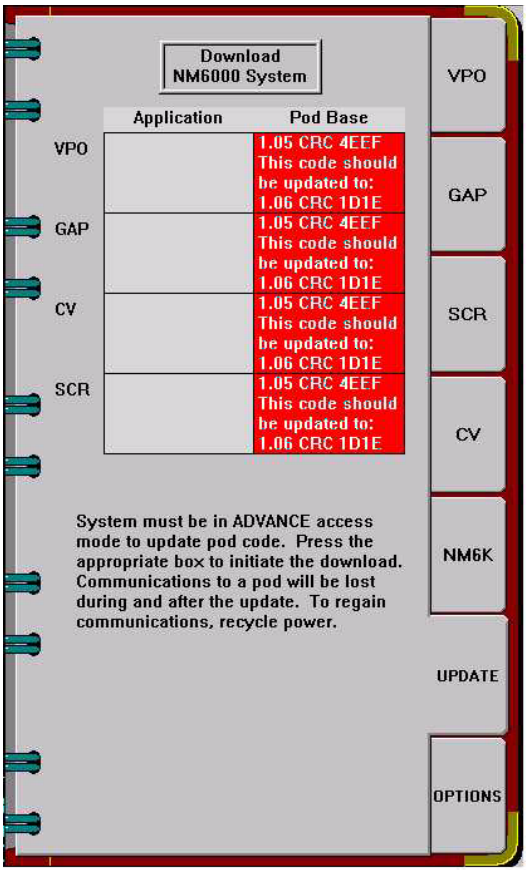

FIGURE 11. Service Config Update Notebook

70. After the POD is rest, turn the System Power switch to STANDBY.
71. Turn the System Power switch to ON and touch the Divan Standby key.
72. Touch the 'Setup' key, then touch the 'About' tab and enter main service menu code (ref: 2, 3, 1, 5). Touch 'OK' at the 'Entering Service Mode: Do you want to continue?' dialog. Touch the NM6000 tab to enter the Primary Service Mode.
73. Touch the 'NM6000' tab, the 'Service Config', and the 'NM6K' tab.
74. Touch the 'Service' key.
75. Enter your technical service ID and touch 'OK'. Touch the 'Service' key.
76. Touch 'RESET LAST SERVICE DATE'.
77. Touch the 'Service Monitors' key to display the 'Service Monitors' notebook.
78. Touch the 'Oxygen' tab and follow the instructions to perform an O2 zero calibration.
79. Touch the 'Pressure' tab and follow the instructions to perform a 'Zero' and 'Span' calibration.

CAUTION: Be sure to use a calibrated cmH2O pressure meter zeroed to ambient air pressure.

REPLACEMENT PROCEDURE (continued)

80. If the machine is a NM6400 touch ‘Gas Flow’ tab and follow the instructions to perform a Zero Flow calibration.
81. If the machine is a NM6400 and the Tidal Volume Alarm setting was previously set to ‘Disabled’, touch the ‘Volume’ tab and touch the ‘Tidal Volume Low Alarm’ to toggle the setting to ‘Disabled’.
82. Touch the ‘Exit’ Service key and then the ‘OK’ key.
83. If the machine is configured with optional Templates and Sounds, use your laptop and the Template Manager Utility to transfer the templates to the new hard. This utility program and instructions for its use can be obtained via Lotus Notes software database or by contacting Draeger Medical, Inc.
84. Perform a PMC procedure on the machine.

Table 3: Service Replacement Parts Software Version 2.06

Service Parts Replacement Schedule 2.06 SW

Machine S/N_____ Hospital Name _____ OR# _____ Version - SrvPart1.09

PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER	LAST REPLACE	NEXT REPLACE
1817582	Lithium Battery 3.6V (CPU1 PCB)				
1841688	TK RAM (IRIA Bench)				
8301856	9V Battery (Divan Motherboard)				
8404065	Lip Seals (pneumatic interface)				
4111460	Auxiliary O2 Flowmeter				
4114713	Vacuum On/Off Assembly				
4114842	Interface Assembly				
4115074-001	Kit, PMC NM6000, 6-Month				
4115074-002	Kit, PMC NM6000, 1-Year				
4115074-003	Kit, PMC NM6000, 2-Year				
4115074-004	Kit, PMC NM6000, 3-Year				
4115777	SE4115754 Flow Sensor				
4115864	O-Ring (Vapor Mount)				
4116144	Lithium Battery 3.0V (WPU)				
4116161	AC Scavenger				
4116462	Cylinder Cutoff Valve Assembly				
4117624-003	Open Reservoir Assembly				
8202100	Modification Kit, CPU1-Divan				
8407979	Diaphragm (Breasy)				
8410181	Diaphragm (Breasy)				
M27721	Lip Seal (piston interface to Breasy)				
M29664	Roller Diaphragm (patient side)				
M30462	Diaphragm (Breasy)				
SE4106363	O2 Sensor Cable				
SE4112970	GAP				
SE4113465-001	Integrated Patient Monitor				
SE4114277-001	ORC				
SE4114431	Power Supply				
SE4114465	Vitalbus Hub (4-comm. port)				
SE4114466	VPO				
SE4114467	WPU - 166 MHz 32 Meg RAM				
SE4114572	CRT				
SE4114852	Breasy				
SE4114860	Divan Body, PCB Boards, & Motor Drive				
SE4115019-002	Vapor Mount and Exclusion System				
SE4115050	Strip Chart Recorder				
SE4115060	Flat Panel Display				
SE4115904	WPU - 233 Mhz 64 Meg RAM				

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Table 3: Service Replacement Parts Software Version 2.06

Service Parts Replacement Schedule 2.06 SW

Machine S/N_____ Hospital Name _____ OR# _____ Version - SrvPart1.09

PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER	LAST REPLACE	NEXT REPLACE
SE4116858	Vitalbus Hub (1-comm. port)				
SE4116918	WPU - 700 MHz 64 Meg RAM				
SE8200974	AD/DA PCB-Divan				
SE8200994	CPU1 PCB-Divan				
SE8305664	CPU2 PCB-Divan				
SEAF00395	APL				
SEAF00486	Divan Control Panel Asm				
SEM29575	Piston				

Table 4: Service Parts Replacement Schedule 3.01 SW & 3.02 SW

Service Parts Replacement Schedule 3.01 SW & 3.02 SW

Machine S/N_____ Hospital Name _____ OR# _____ Version - SrvPart1.09

PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER	LAST REPLACE	NEXT REPLACE
SEAF00395	APL				
1817582	Battery, Lithium 3.6V (CPU1)				
4116144	Battery, Lithium 3.0V (WPU)				
8301856	Battery, 9V (Divan Motherboard)				
4114674	Battery, 12 Volt Rechargeable				
SE4114852	Breasy				
M29230	Canister ASM				
SEAF00486	Control Panel Asm (Divan)				
4116462	Cylinder Cutoff Valve Assembly				
8407979	Diaphragm (Breasy)				
M30462	Diaphragm (Breasy)				
8410181	Diaphragm (Breasy)				
SE4114572	Display, CRT				
SE4115060	Display, Flat Panel				
SE4114860	Divan Body, PCB Boards, & Motor Drive				
M31461	Drive Assembly, RAT (Divan)				
4114887	Filter, (GAP)				
SE4115754-001	Flow Sensor				
4111460	Flowmeter, Auxiliary				
SE4112970-007	GAP				
SE4113465-005	Integrated Patient Monitor				
4115074-002	Kit, PMC NM6000, 1-Year				
4115074-003	Kit, PMC NM6000, 2-Year				
4115074-004	Kit, PMC NM6000, 3-Year				
4115074-001	Kit, PMC NM6000, 6-Month				
M27721	Lip Seal (piston interface to Breasy)				
8404065	Lip Seals (pneumatic interface)				
4115864	O-Ring (Vapor Mount)				
SE4106363	O2 Sensor Cable				
6850645	O2 Sensor Capsule				
SE4114277-001	ORC				
8200970	PCB, AD/DA (Divan)				
SE8604038	PCB, CPU1 (Divan)				
8200990	PCB, CPU2 (Divan)				
4115135	PCB, Flat Panel Power				
4114842	PCB, Interface Assembly				
SE4116858	PCB, Vitalbus Hub				
SE4114466	PCB, VPO				

Table 4: Service Parts Replacement Schedule 3.01 SW & 3.02 SW

Service Parts Replacement Schedule 3.01 SW & 3.02 SW

Machine S/N_____ Hospital Name _____ OR# _____ Version - SrvPart1.09

PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER	LAST REPLACE	NEXT REPLACE
SEM29575	Piston				
SE4116260	Power Supply				
4106037	Pressure Switch - O2 Supply				
4117624-001	Pump, Gap				
1841688	DRAM, TK (IRIA Bench)				
M29664	Roller Diaphragm (patient side)				
4116161	Scavenger, AC				
4117624-003	Scavenger, Open Reservoir				
4110906	Solenoid, Min. Flow				
SE4115050	Strip Chart Recorder				
4117191	Time Clock, Dallas (CPU-1)				
4115961	Tube, Semi-Permeable				
4114713	Valve, Vacuum On/Off				
SE4115019-002	Vapor Mount and Exclusion System				
4116918	WPU				

Table 5: Service Parts Replacement Schedule 4.01 SW

Parts Replacement Schedule 4.01 SW

Machine S/N_____ Hospital Name _____ OR# _____ Version - SrvPart1.11

PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER	LAST REPLACE	NEXT REPLACE
SEAF00395	APL				
1817582	Battery, Lithium 3.6V (CPU1)				
4116144	Battery, Lithium 3.0V (WPU)				
8301856	Battery, 9V (Divan Motherboard)				
4114674	Battery, 12 Volt Rechargeable				
SE4114852	Breasy				
M29230	Canister ASM				
SEAF00486	Control Panel Asm (Divan)				
AF00361	Control Panel Membrane				
4116462	Cylinder Cutoff Valve Assembly				
8407979	Diaphragm (Breasy)				
M30462	Diaphragm (Breasy)				
8410181	Diaphragm (Breasy)				
SE4114860	Divan Body, PCB Boards, & Motor Drive				
1841688	DRAM, TK (IRIA Bench)				
M31461	Drive Assembly, RAT (Divan)				
6870108	Electro Valve (GAP-2)				
4114887	Filter, (GAP)				
4111460	Flowmeter, Auxiliary				
SE4115754-001	Flow Sensor				
4116938	Fresh Gas Flow Sensor ASM				
8601238	Hose Nafion (GAP-2)				
SE4113465-005	Integrated Patient Monitor				
4115074-002	Kit, PMC NM6000, 1-Year				
4115074-003	Kit, PMC NM6000, 2-Year				
4115074-004	Kit, PMC NM6000, 3-Year				
4115074-001	Kit, PMC NM6000, 6-Month				
M27721	Lip Seal (piston interface to Breasy)				
8404065	Lip Seals (pneumatic interface)				
4115864	O-Ring (Vapor Mount)				
SE4106363	O2 Sensor Cable				
SE4114277-001	ORC				
6850645	O2 Sensor Capsule				
8200970	PCB, AD/DA (Divan)				
4113577-002	PCB, ASM-Gas Personality (GAP-2)				
SE8604038	PCB, CPU1 (Divan)				
8200990	PCB, CPU2 (Divan)				
8202021	PCB, Display Alphanumeric				

Table 5: Service Parts Replacement Schedule 4.01 SW

Parts Replacement Schedule 4.01 SW

Machine S/N_____ Hospital Name _____ OR# _____ Version - SrvPart1.11

PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER	LAST REPLACE	NEXT REPLACE
4115135	PCB, Flat Panel Power				
4114842	PCB, Interface Assembly				
8201090	PCB, Panel Led-Bargraph				
8350306	PCB, Processor ASM (GAP-2)				
SE4116858	PCB, Vitalbus Hub				
SE4114466	PCB, VPO				
8406516	PEEP Valve				
SEM29575	Piston				
SE4116260	Power Supply				
8200599	Pressure Sensor PE1-PE2				
8200785	Pressure Sensor PE3				
4106037	Pressure Switch - O2 Supply				
8200957	Pulse Generator				
4117922	Pump Assembly (GAP-2)				
M29664	Roller Diaphragm (patient side)				
4116161	Scavenger, AC				
4117624-003	Scavenger, Open Reservoir				
SE4117962	SE-Flat Panel Display-Euro				
SE4117925	SE-Gas Analyzer Pod ASM (GAP-2)				
4110906	Solenoid, Min. Flow				
SE4115050	Strip Chart Recorder				
4117191	Time Clock, Dallas (CPU-1)				
4115961	Tube, Semi-Permeable				
4114713	Valve, Vacuum On/Off				
SE4115019-002	Vapor Mount and Exclusion System				
6870567	Water Lock Pot-12 Pack				
6870530	Water Trap Holder (GAP-2)				
4116918	WPU				

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Printed in the U.S.A.